

IN THE DRAWINGS:

Please amend Fig. 12 as shown in the replacement sheet, designating Fig. 12 as prior art.

### REMARKS

Applicant has amended the drawings, specification, and the Claims 1-6. Applicant respectfully submits that these amendments to the drawings, specification, and claims are supported by the Application as originally filed and do not contain any new matter. Accordingly, the Office Action will be discussed in terms of the drawings, specification, and claims as amended.

The Examiner has objected to the drawings stating that Fig. 12 needs to be designated as prior art. In reply thereto, submitted herewith is a replacement sheet designating Fig. 12 as prior art.

The Examiner has also objected to the specification stating that there are certain typographical errors. Applicant has amended the typographical errors and respectfully requests that the Examiner withdraw his objection to the specification.

The Examiner has objected to the Claims 1 and 3 as containing certain informalities. In view of the amendments to Claims 1 and 3, Applicant respectfully requests that the Examiner withdraw his objection.

The Examiner has rejected the Claims 3-6 under 35 U.S.C. 112, first paragraph. In view of the amendments to the Claims 3-6 and particularly the Claim 3, Applicant respectfully submits that the Specification does provide reasonable enablement to one of ordinary skill in the art to make the invention commensurate in scope with these claims. Therefore, Applicant respectfully requests that the Examiner withdraw his objection under 35 U.S.C. 112, first paragraph.

The Examiner has rejected the Claims 1 and 2 under 35 U.S.C. 112, second paragraph as being indefinite. In view of the amendments to the Claims 1 and 2, Applicant respectfully submits that the Claims 1 and 2 comply with the requirements of 35 U.S.C. 112, second paragraph.

The Examiner has rejected the Claim 1 under 35 U.S.C. 103 as being obvious over Suehiro in view of Applicant's admitted prior art (AAPA), stating that Suehiro teaches a CDMA system using a polyphase pseudoperiodic sequence whose cross correlation value is zero within a small region of shifts, but does not disclose making hard decisions from the received signal; Applicant's admitted prior art discloses a mobile spread spectrum communication system which illustrates a detection circuit for making hard decisions of the received data; and it would have been obvious to one of ordinary skill in the art to modify Suehiro in view of the teachings of Applicant's admitted prior art.

Applicant has carefully reviewed Suehiro, and respectfully submits that the invention claimed therein and described in Suehiro is quite different from Applicant's invention as now claimed in Applicant's amended Claim 1. In particular, Suehiro teaches a CDMA system using a polyphase psuedoperiodic sequence having a small family size and not stratified family element whose cross correlation value is zero within a small region of shifts, but does not disclose a technique such as providing ZCZ sequences (preceding technique) having a limited shift region where the cross correlation value takes zero to increase the sequence family size. In addition, the present invention provides ZCCZ sequences which have a larger sequence family size while keeping zero or low cross correlations within a limited shift region than that of the ZCZ sequences. Suehiro teaches a technique using expanded symbol frames to avoid the intersymbol interference. The present invention also uses this technique, but this means does not indicate the main subject of this invention.

In addition, Applicant has carefully reviewed Applicant's submitted prior art, and respectfully submits that while Applicant's admitted prior arts shown in Fig. 12 may disclose making the demodulated signal on the hard decision, Applicant respectfully submits that it does not disclose the particular spreading sequence generator that is now claimed in Applicant's amended Claim 1.

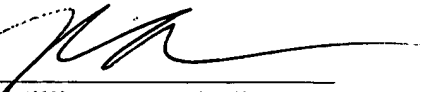
In view of the above, therefore, Applicant respectfully submits that the combination suggested by the Examiner is not Applicant's invention, and the Claim 1 is not obvious over Suehiro in view of Applicant's submitted prior art.

In view of the above, therefore, it is respectfully requested that this Amendment be entered, favorably considered, and the case passed to issue.

or required by any requests for extensions of time to KODA & ANDROLIA DEPOSIT  
ACCOUNT NO. 11-1445.

Respectfully submitted,

KODA & ANDROLIA

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